

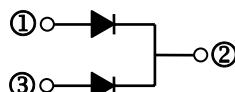
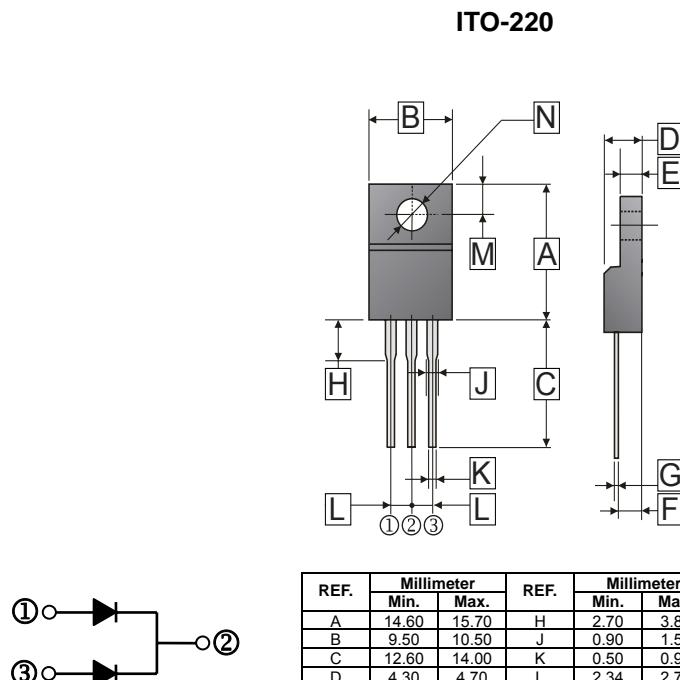
RoHS Compliant Product
A suffix of "C" specifies halogen free

FEATURES

- Superlow forward voltage drop
- Low reverse current
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: Lead solderable per MIL-STD-202 method 208 guaranteed
- Polarity: As Marked
- Mounting position: Any
- Weight: 1.98 g (Approximate)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	V
Working Peak Reverse Voltage	V_{RSM}	60	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	I_F	10	A
(Per Leg)		20	
(Per Device)			
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	200	A
Maximum Instantaneous Forward Voltage	V_F	0.57	V
($I_F = 10$ A, $T_J = 25^\circ\text{C}$, per leg)		0.52	
($I_F = 10$ A, $T_J = 125^\circ\text{C}$, per leg)			
Maximum DC Reverse Current at Rated DC Blocking Voltage ³	I_R	0.12	mA
$T_J=25^\circ\text{C}$		10	
$T_J=100^\circ\text{C}$			
Typical Junction Capacitance ¹	C_J	620	pF
Typical Thermal Resistance ²	$R_{\theta JC}$	8	°C / W
Voltage Rate of Change (Rated V_R)	dv/dt	10000	V / µs
Operating Temperature Range	T_J	-50 ~ 150	°C
Storage Temperature Range	T_{STG}	-50 ~ 150	°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 5.0V D.C.
2. Thermal Resistance Junction to Case.
3. Pulse Test : Pulse Width = 300 µs, Duty Cycle \leq 2.0%.

RATINGS AND CHARACTERISTIC CURVES

